

## OPTICAL IMAGING SYSTEM AND METHOD

## ABSTRACT OF THE DISCLOSURE

[0042] An imaging system for generating an image of an object is provided. The imaging system comprises an X-ray source disposed in a spatial relationship to the object configured to transmit X-ray radiation through the object. The system further comprises at least one X-ray detecting media configured to convert the X-ray radiation transmitted through the object to optical signals. In addition, the system comprises an optical transmission conduit comprising a first end and a second end and an optical detector configured to convert optical signals to corresponding electrical signals. The first end of the optical transmission conduit is coupled to the X-ray detection device and the second end coupled to the optical detector.